

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**



Declaration  
Submitted  
With Initial  
Filing

OR



Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

Attorney Docket Number	3102/1US
First Named Inventor	FOOTE, John A.
<i>COMPLETE IF KNOWN</i>	
Application Number	not yet assigned
Filing Date	07/21/2004
Art Unit	not yet assigned
Examiner Name	not yet assigned

**I hereby declare that:**

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**OPTICAL SENSOR FOR MEASURING CHARACTERISTICS AND PROPERTIES OF  
STRANDS**

*(Title of the Invention)*

the specification of which



is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				Yes	No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☒ Customer Number: 23638 OR ☐ Correspondence address below

Name

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

John A.

Foot

Inventor's  
Signature

Date

7/13/04

Residence: City

State

Country

Citizenship

Cornelius

NC

NC

US

US

Mailing Address

18810 Halyard Pointe Lane

City

State

ZIP

Country

Cornelius

NC

28031

US

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Richard J.

Tweed

Inventor's  
Signature

Date

7/13/04

Residence: City

State

Country

Citizenship

Midland

NC

NC

US

US

Mailing Address

10731 Old Camden Road

City

State

ZIP

Country

Midland

NC

28107

US

☐ Additional inventors or a legal representative are being named on the \_\_\_\_\_ supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.

# PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

John A. Foote  
18810 Halyard Pointe Lane  
Cornelius, NC 28031  
United States of America

hereby appoints (appoint) the following person as:

☒ agent

☐ common representative

### Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

W. Thad Adams, III Reg. No. 29,037  
Stephen S. Ashley, Jr. Reg. No. 47,394  
Brandon C. Trego Reg. No. 53,702  
Jonathan M. Hines Reg. No. 44,764  
ADAMS EVANS P.A.  
301 South Tryon Street, Ste. 2180  
Charlotte, NC 28282-1991  
United States of America

to represent the undersigned before

☒ all the competent International Authorities

☐ the International Searching Authority only

☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

Title of the invention: OPTICAL SENSOR FOR MEASURING CHARACTERISTICS AND PROPERTIES OF STRANDS

Applicant's or agent's file reference: 3102/1PCT

International application number (if already available):

filed with the following Office United States as receiving Office  
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):

  
Signature of John A. Foote

Date: 7/13/04

## PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

Richard J. Tweed  
10731 Old Camden Road  
Midland, NC 28107  
United States of America

hereby appoints (appoint) the following person as:

☒ agent☐ common representative

## Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

W. Thad Adams, III Reg. No. 29,037  
Stephen S. Ashley, Jr. Reg. No. 47,394  
Brandon C. Trego Reg. No. 53,702  
Jonathan M. Hines Reg. No. 44,764  
ADAMS EVANS P.A.  
301 South Tryon Street, Ste. 2180  
Charlotte, NC 28282-1991  
United States of America

to represent the undersigned before

☒ all the competent International Authorities☐ the International Searching Authority only☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

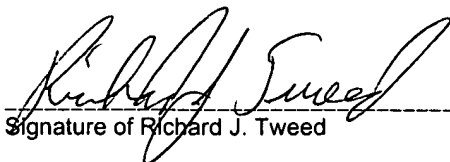
Title of the invention: OPTICAL SENSOR FOR MEASURING CHARACTERISTICS AND  
PROPERTIES OF STRANDS

Applicant's or agent's file reference: 3102/1PCT

International application number (if already available):

filed with the following Office United States as receiving Office  
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and  
the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):

  
Signature of Richard J. Tweed

Date:

7/13/04